

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003323 A2

- (51) International Patent Classification⁷: **C12N** San Diego, CA 92117 (US). **GLOSS, Bernd** [DE/US]; 8861 Caminito Sueno, La Jolla, CA 92037 (US).
- (21) International Application Number: PCT/US2004/022718 (74) Agent: **HAILE, Lisa, A.**; Gray Cary Ware & Freidenrich LLP, 4365 Executive Drive, Suite 1100, San Diego, CA 92121-2133 (US).
- (22) International Filing Date: 28 June 2004 (28.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/484,509 1 July 2003 (01.07.2003) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/484,509 (CON)
Filed on 1 July 2003 (01.07.2003)
- (71) Applicant (for all designated States except US): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, Oakland, CA 94607-5200 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DILLMANN, Wolfgang, H.** [US/US]; 355 South Nardo Avenue, Solana Beach, CA 92075 (US). **SUAREZ, Jorge** [MX/US]; 8510 Costa Verde Blvd. Apt. 2432, San Diego, CA 92122 (US). **BELKE, Darrell** [CA/US]; 6212 Beadnell Way,
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF CALCIUM BINDING PROTEINS TO IMPROVE CARDIAC CONTRACTILE FUNCTION

(57) Abstract: Methods useful in the regulation of myocardial contraction are disclosed. The methods are useful in the regulation of heart function. The invention reveals that sorcin overexpression enhances cardiac contractile performance and establishes the concept of sorcin as a regulator of myocardial contractility. The invention also provides screening assays that allow for the identification of agents that modulate sorcin expression. Such agents are useful, for example, for diagnosing cardiac contractile function associated disorders in subjects, and treating the subjects with the agents identified as being able to modulate sorcin expression.

TEST AVAILABLE COPY

WO 2005/003323 A2